

# THESIS

## TH quattro

**1400W Power Amplifier**  
Four Channel Power Amplifier



  
ideato,  
progettato,  
costruito  
in Italia

### Power Supply

Voltage:	11 ÷ 15 VDC
Idling current (@ Dual Power Setting):	2.6 ÷ 8.9 A
Idling current when off:	0.04 mA
Consumption @ 14.4 VDC, 1 Ω, Max Musical Power:	105 A
Remote In:	7 ÷ 15 VDC (1 mA)
Remote Out:	12 VDC (20 mA)
Fuse (AFS):	100 A

### Amplifier stage

Distortion - THD @ 1 kHz, 4 Ω; 90% Power:	0.03 %
Bandwidth @ -3 dB, 2 VRMS, 4 Ω:	5 ÷ 70k Hz
S/N ratio @ A weighted, 1V, Max Power:	104 dBA
Damping factor @ 1 kHz, 2 VRMS, 4 Ω:	80
Pre-In sensitivity:	0.3 ÷ 4.8 VRMS
Pre-In impedance:	15 kΩ
Load impedance (Min @ Dual Power Mode - Hi-Current):	
• 4 Ch	1 Ω
• 2 Ch	2 Ω

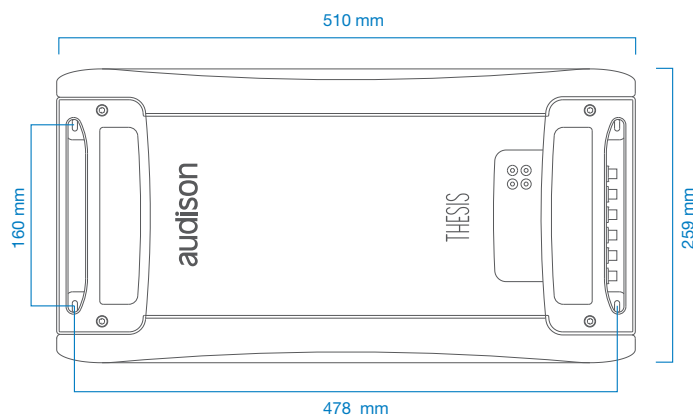
Nominal power (RMS) @ 12 VDC, 1% THD: Dual Power Mode - Hi-Current:	
• 4 Ch @ 4 Ω	115 W x 4
Dual Power Mode - A Class:	
• 4 Ch @ 4 Ω	40 W x 4

Output power (RMS) @ 14.4 VDC, 1% THD: Dual Power Mode - Hi-Current:	
• 4 Ch @ 4 Ω	160 W x 4
• 4 Ch @ 2 Ω	260 W x 4
• 4 Ch @ 1 Ω	340 W x 4
• 3 Ch @ 4 Ω	150 W x 2 + 540 W x 1
• 3 Ch @ 2 Ω	250 W x 2 + 650 W x 1
• 2 Ch @ 4 Ω	500 W x 2
• 2 Ch @ 2 Ω	700 W x 2

Dual Power Mode - A Class:	
• 4 Ch @ 4 Ω	55 W x 4

### CEA SPECIFICATION

Output power @ 4 Ω, 1% THD+N, 14.4 V:	150 W x 4 Ch
SN ratio (ref. 1 W output):	80 dBA



### Other functions

#### ASC (Audison Status Controller) FUNCTIONS

AMP IDentifications, DUAL POWER settings,  
AD Link inputs, AC Link digital bus, DRC controls,  
ACNet software, Status Monitor, Protections

### Inputs/Outputs/Filters

Inputs:	PRE - S/PDIF (Max 192 kHz / 24 bit) Optical and AD Link
Outputs:	PRE Bypass / AD Link
Filters:	2 Removable kit: (Hi-pass / Lo-pass / Bandpass 12/24dB) 32 steps 18 ÷ 7.5k Hz with 8 standard & 2 customizable modules

### Size

Max size (mm/inches):	259 x 510 x 67 / 10 <sup>n1/4</sup> x 20 <sup>n1/8</sup> x 2 <sup>n11/16</sup>
Weight (kg/lb):	10,3 / 22.71